

Lockheed Aircraft Corp.		ENGINEERING STUDY <input type="checkbox"/>		LAC - 245-1						
		CHANGE PROPOSAL <input type="checkbox"/>								
DATE 19 April 1966		AFFECTS: WSPO <input checked="" type="checkbox"/>		PROJECT <input checked="" type="checkbox"/>						
NAME OF MAJOR COMPONENT SUMP TANK		PART OR LOWEST SUBASSEMBLY SUMP TANK		PART NO. & MODEL OR TYPE 75F51-50 & G75F136-501R						
TITLE OF PROPOSAL : SUMP TANK QUANTITY INDICATION SYSTEM										
NATURE OF PROPOSAL :  SEE PAGE 2										
REASON FOR PROPOSAL :  TO PROVIDE A SUMP TANK FUEL QUANTITY INDICATION SYSTEM										
REASON FOR REVISION:  TO PROPOSE A SYSTEM UTILIZING A CAPACITANCE TYPE QUANTITY INDICATING SYSTEM WITH INDICATOR READOUT FOR PILOT IN LIEU OF FUEL WARNING LIGHT INDICATION.										
ES		ESTIMATED COST AND TIME INVOLVED : ADDITIONAL FUNDING REQUIRED :								
CP		ESTIMATED COST FOR KITS OR PARTS : SEE PAGE 4 ADDITIONAL FUNDING REQUIRED : SEE PAGE 5								
ITEMS AFFECTED BY PROPOSAL :										
SAFETY	MISSION EFFECTIVENESS	PERFORMANCE	OPERATING PROCEDURE	INTER-CHANGEABILITY	WEIGHT OR WEIGHT & BALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTENANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTENANCE MANUAL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD										
SOURCE OF PARTS FOR KIT GFAB & LAC				AVAILABILITY _____ WEEKS AFTER APPROVAL SEE PAGE 5						
DISPOSITION OF SPARES AFFECTED TO BE REWORKED										
INITIATED BY : Approved For Release 2002/10/31 : CIA-RDP89B00980R000200150009-8				APPROVED : WSPO 23/5/66						

## NATURE OF PROPOSAL:

TO PROVIDE A CAPACITANCE TYPE SUMP TANK FUEL QUANTITY SYSTEM. THE SYSTEM WILL CONSIST OF THE FOLLOWING (SIMMONDS PRECISION PRODUCTS, LIQUIDOMETER DIV.) COMPONENTS:

B118 TYPE 2 INCH SERVO INDICATOR. INDICATOR WILL BE GRADUATED IN GALS. AND READ FROM 25 GALS. TO 93 GALS.

B277 TYPE LINEAR TANK UNIT. BOTH COMPONENTS WILL BE MODIFIED TO SUIT SUMP TANK REQUIREMENTS AND REIDENTIFIED.

IN ORDER TO ACCOMMODATE NEW FUEL QUANTITY SYSTEM, AIRPLANE WILL BE MODIFIED AS FOLLOWS:

FUSELAGE AN ACCESS DOOR WILL BE INSTALLED IN FUSELAGE BETWEEN F.S. 377 AND F.S. 489.50 ABOVE R.H. SUMP TANK. THIS WILL PROVIDE FOR INSTALLATION AND REMOVAL OF FUEL QUANTITY TANK UNIT IN R.H. SUMP TANK.

SUMP TANK R.H. SUMP TANK P/N 75F51-50R (MODEL C & F) AND P/N 75F135-501 (MODEL G) WILL BE REWORKED TO PROVIDE MOUNTING FLANGE TO INSTALL TANK. UNIT.

PLUMBING INSIDE R.H. SUMP TANK WILL BE REROUTED TO CLEAR TANK UNIT AND REIDENTIFIED.

A FLOAT SWITCH P/N F73420 WILL BE MOUNTED ON LOWER SUMP TANK ACCESS COVER P/N 75F102. FLOAT SWITCH WILL BE INSTALLED AT 15 GALS. LEVEL. ACCESS COVER WILL BE MODIFIED AND REIDENTIFIED.

TANK UNIT SPECIAL ADAPTER WILL BE PROVIDED TO MOUNT QUANTITY TANK UNIT ON R.H. SUMP TANK

COCKPIT THE L.H. MAIN INSTRUMENT PANEL WILL BE MODIFIED AS FOLLOWS:

EXISTING FLAP POSITION INDICATOR P/N MS28003-1 WILL BE REPLACED WITH 1 1/2 INCH DIA. INDICATOR AND WILL BE RELOCATED AT THE DC LOAD METER PRESENT LOCATION.

DC LOAD METER WILL BE RELOCATED ON CENTER LOWER INSTRUMENT PANEL.

THE NEW SUMP TANK QUANTITY INDICATOR WILL BE LOCATED ON L.H. INSTRUMENT PANEL IN AREA PRESENTLY USED FOR FLAP POSITION INDICATOR.

Nature of Proposal: (cont)

ELECTRICAL POWER WILL BE SUPPLIED FROM THE INVERTER SYSTEM  
VIA EITHER THE NO. 1 OR NO. 2 INVERTERS.

PROJECT AIRPLANES

A SERVICE BULLETIN WILL BE ISSUED FOR FIELD INSTALLATION. CONTRACTOR WILL BE PROVIDED WITH TWO SPARE SUMP TANKS FOR SERVICE BULLETIN REWORK. TANKS WILL BE ISSUED TO THE FIELD ON A TURN AROUND BASIS.

A SERVICE BULLETIN WILL BE ISSUED AGAINST SERIAL 359 TO REMOVE EXISTING SUMP TANK QUANTITY SYSTEM CONSISTING OF FOUR (4) FLOAT SWITCHES IN SUMP TANK AND FOUR (4) LIGHTS IN COCKPIT AND REPLACING THEM WITH NEW CAPACITANCE SYSTEM.

FOG AIRPLANES

A SERVICE BULLETIN WILL BE ISSUED FOR FIELD INSTALLATION ON MODEL C AIRPLANES ALREADY DELIVERED. THE REMAINING AIRPLANES WILL HAVE KITS INSTALLED AT FACTORY DURING CONVERSION.

SPARE SUMP TANKS

ALL J75 R.H. SUMP TANKS P/N 75F51-50R AND P/N G75F136-5Q1R WILL BE REWORKED BY DEPOT REWORK ORDER REQUEST.

GROUND HANDLING EQUIPMENT

EACH BASE SHALL BE PROVIDED WITH A FUEL QUANTITY GAGE TESTER GENERAL RADIO CO. TYPE TTU-68/E SPEC. MIL-T-26690 - FEDERAL STOCK NO. 6625-683-9547.

Next 1 Page(s) In Document Exempt